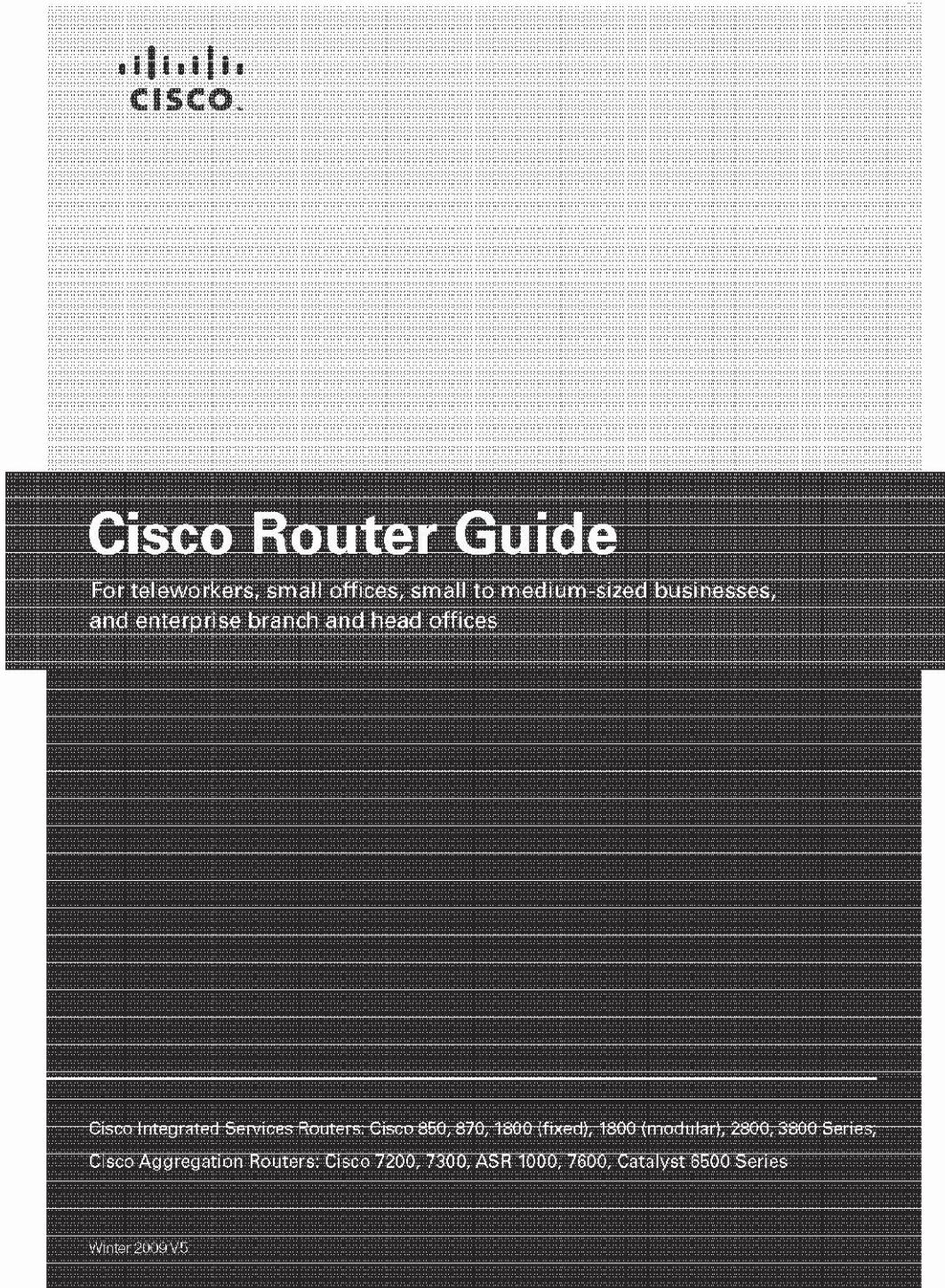


EXHIBIT 32



The image shows the front cover of a Cisco Router Guide. The cover is white with a black header and footer. The top header features the Cisco logo and the text "Cisco Router Guide". The bottom header contains the text "For teleworkers, small offices, small to medium-sized businesses, and enterprise branch and head offices". The main body of the cover is a large, faint, grayscale image of a network of routers and cables. The footer contains the text "Cisco Integrated Services Routers: Cisco 860, 870, 1800 (fixed), 1800 (modular), 2800, 3800 Series; Cisco Aggregation Routers: Cisco 7200, 7300, ASR 1000, 7600, Catalyst 6500 Series" and "Winter 2009 V5".

Cisco Router Guide

For teleworkers, small offices, small to medium-sized businesses,
and enterprise branch and head offices

Cisco Integrated Services Routers: Cisco 860, 870, 1800 (fixed), 1800 (modular), 2800, 3800 Series;
Cisco Aggregation Routers: Cisco 7200, 7300, ASR 1000, 7600, Catalyst 6500 Series

Winter 2009 V5

Cisco Router Guide

For Medium-sized Businesses, Enterprise Branches, Head Offices, and the Service Provider Edge

This is your guide to Cisco® Services Aggregation Routers and Cisco Integrated Services Routers, the broadest and most versatile portfolio of products for enabling the deployment of multiple advanced services.

Cisco is the worldwide leader in networking systems for organizations of all sizes, offering solutions that fully support enterprise-wide deployment of networked business applications. A foundation of the Intelligent Information Network, Cisco routers provide high availability, comprehensive security, integrated wireless, ease of management, and advanced Quality of Service (QoS) for today's most demanding network services, including IP communications, video, customer relationship management, financial transactions, and other real-time applications.

This guide shows how Cisco Services Aggregation Routers and Cisco Integrated Services Routers enable you to meet your current and future needs with modular designs, allowing incremental migration as your business and network requirements change.

In this guide, you can see for yourself how Cisco delivers benefits beyond basic data access, providing services such as voice, security, and wireless as part of an integrated routing system that maximizes productivity and investment protection.

Cisco Router Guide

Modularity	
Series Overview	4
Product Transition Matrix	11
Integrated Services Routers	
Cisco 850 Series	15
Cisco 870 Series	19
Cisco 1800 Series (Fixed-Configuration)	25
Cisco 1800 Series (Cisco 1841 Router Modular)	33
Cisco 1800 Series (Cisco 1861 Router Modular)	39
Cisco 2800 Series	47
Cisco 3800 Series	59
Aggregation Routers	
Cisco 7200 Series	69
Cisco 7301 Series	79
Cisco 7304 Series	89
Cisco ASR 1000 Series	97
Cisco 7600 Series	109
Cisco Catalyst 6500 Series	127
Compatibility Quick Looks	
Cisco Network Module Compatibility Quick Look	213
Cisco Interface Card Compatibility Quick Look	219
Cisco Advanced Integration Module Compatibility Quick Look	223
Cisco Port Adapter Compatibility Quick Look	225
Cisco Shared Port Adapter Compatibility Quick Look	229
Cisco USB Flash Memory Compatibility Quick Look	231

Cisco Unified Communications Features

<p>• Sophisticated key system and private branch exchange (PBX) capabilities: SMBs and enterprise branch offices have different workflows and require specialized features to support their work practices. The Cisco 1861 delivers a robust set of telephony features for the small office and delivers unique value-added capabilities through the Extensible Markup Language (XML). These capabilities, which cannot be delivered by traditional systems, enhance the productivity of the end user and the business.</p> <p>• Cost-effective operations through a single, integrated voice-and-data platform for all SMB and enterprise branch office needs: This highly reliable platform provides robust QoS and the right level of security, encryption, and firewall to deliver enhanced VPN services to meet small-business needs. The system delivers integrated IP telephony, voicemail, and Automated-Attendant functions, allowing you to deploy one device to address all your business needs thereby simplifying management, maintenance and operations and delivering a lower total cost of ownership (TCO).</p> <p>• Remote maintenance and troubleshooting: You can use the industry-standard Cisco IOS Software Command-Line Interface (CLI) or a user-friendly GUI to configure and administer the Cisco 1861 Integrated Services Router system.</p> <p>The Cisco 1861 Integrated Services Router appliance in the first phase offers the feature set available with Cisco Unified Communications Manager Express 4.1 and Cisco Unity Express 2.3. IP Telephony Support Overview summarizes the unified communications features.</p>	<p>Platform Overview</p> <p>Security is a fundamental element of any network, and Cisco products play an important role in embedding security at the customer's access edge. The optional Cisco IOS Software Integrated Services Router are activated with hardware-based encryption on the motherboard and provide a robust array of features such as Cisco IOS Firewall, NAI, and SRST.</p> <p>Secure Network Overview</p> <p>IP Security (IPsec) VPNs, Digital Encryption Standard (DES), Triple DES (3DES), SSL, Web VPN, SSHv2, and SNMP in one solution set. Secure Networking Overview summarizes the enhanced security functions available through the optional security image.</p>
<p>• IP telephony is currently undergoing tremendous growth, accelerated by access to value-added features and applications that only IP telephony can provide to the end user. Additionally, the cost benefits of converging data, voice, and video on a single network are adding to the rapid acceptance of this technology. Because it is integrated into a single system, the Cisco 1861 Integrated Services Router for SMBs and enterprise small branch offices enhances the advantages of convergence by offering the following unique benefits:</p> <p>• Cost-effective operations through a single, integrated voice-and-data platform for all SMB and enterprise branch office needs: This highly reliable platform provides robust QoS and the right level of security, encryption, and firewall to deliver enhanced VPN services to meet small-business needs. The system delivers integrated IP telephony, voicemail, and Automated-Attendant functions, allowing you to deploy one device to address all your business needs thereby simplifying management, maintenance and operations and delivering a lower total cost of ownership (TCO).</p>	<p>IP Telephony Support Overview</p> <p>Onboard PoE switch ports can be used to power Cisco IP phones. Onboard support enables and digital voice, conferencing, transcoding, and Secure Real-Time Transport Protocol (RTP) applications. This feature is not upgradable.</p> <p>Integrated Call Processing</p> <p>Cisco Unified Communications Manager Express (CME) v4.2 is embedded in Cisco IOS Software at first customer shipment (FCS) and provides call processing for Cisco IP phones. Cisco CMF delivers telephony features similar to those that are commonly used by business users to meet the requirements of the small to medium-sized offices. For additional information about Cisco Unified Communications Manager Express features, please visit http://www.cisco.com/go/cme.</p> <p>Integrated Voicemail and Automated Attendant</p> <p>An integrated voicemail and Automated Attendant solution using Cisco Unity Express v4.3 is available optionally as a factory option. Up to 8 mailboxes and 5 general delivery mailboxes are available with the Cisco Unity Express option. For additional information about Cisco Unified Unity Express features, please visit http://www.cisco.com/go/cue.</p> <p>PSTN Interfaces Support</p> <p>Onboard voice ports are integrated into the system by default, including FXS, FXO, and BRI. Branch offices can take advantage of centralized call control while cost-effectively providing local branch back-up using SRST for unified communications. For additional information about Cisco Unified SRST features, please visit http://www.cisco.com/go/first.</p> <p>Cisco Unified SRST</p> <p>Branch offices can take advantage of centralized call control while cost-effectively providing local branch back-up using SRST for unified communications. For additional information about Cisco Unified SRST features, please visit http://www.cisco.com/go/first.</p>
<p>• Sophisticated security and policy enforcement provides features such as stateful, application-based filtering (context-based access control), per-user authentication and authorization, real-time alerting, transparent firewall, and IP/6 firewall.</p> <p>SSL</p> <p>SSL provides security for Web transactions by handling authentication, data encryption, and digital signatures.</p> <p>Onboard VPN Encryption Acceleration</p> <p>The Cisco 1861 supports IPsec DES, 3DES, and AES 128, 192, and 256 cryptography by using an optional security image.</p> <p>Network Admission Control (NAC)</p> <p>A Cisco Self-Defending Network initiative, NAC seeks to dramatically improve the ability of networks to identify, prevent and adapt to threats by allowing network access only to compliant and trusted endpoint devices.</p>	<p>Multiprotocol Label Switching (MPLS) VPN Support</p> <p>The Cisco 1861 supports specific provider edge functions plus a mechanism to extend customer's MPLS VPN networks out to the customer edge with a Virtual Router Forwarding (VRF) firewall and VRF IPsec. For details about the MP-S VRF support on the different integrated services routers, please check the feature navigator tool at http://www.cisco.com.</p> <p>IPS</p> <p>Flexible and high-performance support is offered through Cisco IOS Software. IPS offers the ability to load and enable selected intrusion detection system (IDS) signatures in the same manner as Cisco IDS Sensor Software.</p> <p>Advanced Application Inspection and Control</p> <p>Cisco IOS Firewall includes HTTP and several e-mail inspection engines that can be used to detect misuse of port 80 and e-mail connectivity.</p> <p>Cisco Easy VPN Remote and Server Support</p> <p>The Cisco 1861 eases administration and management of point-to-point VPNs by actively pushing new security policies from a single headend to remote sites.</p> <p>DMVPN</p> <p>DMVPN is a Cisco IOS Software solution for building IPsec-2-Centric routing encapsulation (GRe) VPNs in an easy and scalable manner.</p> <p>GET VPN</p> <p>GET VPN is a Cisco IOS Software solution that simplifies securing large Layer 2 or MPLS networks requiring partial or full-mesh connectivity by providing tunnel-less VPN connectivity.</p> <p>URL Filtering</p> <p>URL filtering is available externally with a PC server running the URL filtering software.</p> <p>Standard 802.1x Support on Integrated Switching</p> <p>Standard 802.1x applications require valid access credentials that make unauthorized access to protected information resources and deployment of unsecured wireless access points more difficult.</p> <p>Network Address Translation (NAT)</p> <p>NAT simplifies and reduces costs associated with global IP address allocation and management. Only a single registered IP address is required to support all users on an entire LAN infrastructure.</p>